Mark Rofail

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Professional Summary

Software Engineer with 6+ years of experience building large-scale, user-facing platforms at Amazon, GoCardless, and high-growth startups. Skilled in TypeScript, React, and full-stack development, with a strong track record of leading cross-functional projects that improve developer experience, system reliability, and customer engagement.

Experience

Software Development Engineer II
Amazon
November 2022 – Present | London, UK

- Drove the technical roadmap for the high-volume Prime Video detail page redesign, translating complex product requirements into a scalable roadmap for a 4-engineer team, resulting in a 21% uplift in user satisfaction.
- Led the primevideo.com Ads platform project, overseeing integration across 50+ microservices using a feature-flag driven release strategy, which boosted ad engagement by 15%.
- Architected and deployed a multi-region chaos-testing framework for Amazon Prime Video's critical path, proactively resolving systemic memory leaks and achieving a 30% measurable improvement in distributed system stability.
- Designed and launched a developer productivity suite—including internal debugging extensions and API-linked UI inspectors—reducing front-end investigation time by 40% and improving feature delivery velocity across teams.

Software Development Engineer II
GoCardless
October 2021 – October 2022 | London, UK

- Led the end-to-end design and implementation of a core fraud prevention service, leveraging machine learning models and open-banking data to reduce payment fraud by 23% across the platform.
- Drove merchant adoption by designing a payment intelligence dashboard , enabling custom, data-backed fraud checks and boosting merchant satisfaction by 31%.
- Collaborated with product and data teams to align fraud-risk models with merchant UX flows, accelerating iteration cycles and reducing false-positive investigations by 18%.

Software Development Engineer
Shahry
July 2020 – September 2021 | Cairo, EG

Software Development Engineer
Informatica Middle East
June 2019 – June 2020 | Alexandria, EG

Skills

Programming	Python, Ruby, Typescript, Java
Frameworks	Django, FastAPI, Rails, React
Testing	Jest, PyTest, Load, Chaos Testing
Database	Redis, DynamoDB, PostgreSQL
DevOps	CloudFormation, CI/CD, Prometheus

Projects & Publications

ICVES Publication
Multi-Modal Vehicle Attack Detection 🔗
Technologies: Tensorflow, Python

- Simulated camera-based attacks by manipulating the vehicle's camera feed.
- Manufactured a multi-modal module to identify discrepancies between the vehicle's image and LiDAR sensors.

Google Summer of Code
PostgreSQL Core Contributor 🔗
Technologies: C, C++

- Optimized index-scan performance from 25ms to 2ms by implementing GIN index-scan logic for polymorphic array types.

Education

BSc. Computer Science
German University in Cairo
September 2014 - June 2019 | Cairo, EG
GPA: 3.9 / 4.0 | Highest Honors

Leadership & Awards

Coding Workshops - 2022
Established and led bi-weekly technical workshops for new hires and junior engineers, accelerating ramp-up time for 15+ engineers.

Google GSOC Mentor - 2021
Mentored student throughout their PostgreSQL project.

Bachelor Project Supervisor - 2021
Supervised three undergraduate students in their bachelor projects.

ICVES Best Paper Award - 2019
Selected as the best paper out of 54 submissions.